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TECHNICAL NOTE

U.S. DEPARTMENT OF THE INTERIOR – BUREAU OF LAND MANAGEMENT

RANGELAND DRILL

A suggestion was submitted by an employee from the Elko District to reduce the speed of the feeder gears on the rangeland drills.

This reduction mechanism provides for reducing the seeding adjustment mechanism to seed from 1 to 4 pounds of seed per acre which could result in a savings of 35¢ for each pound of seed reduced per acre.

This suggestion was approved by Rangeland Drill Subcommittee at Reno in 1971 and has been used by the Nevada Districts since that time.

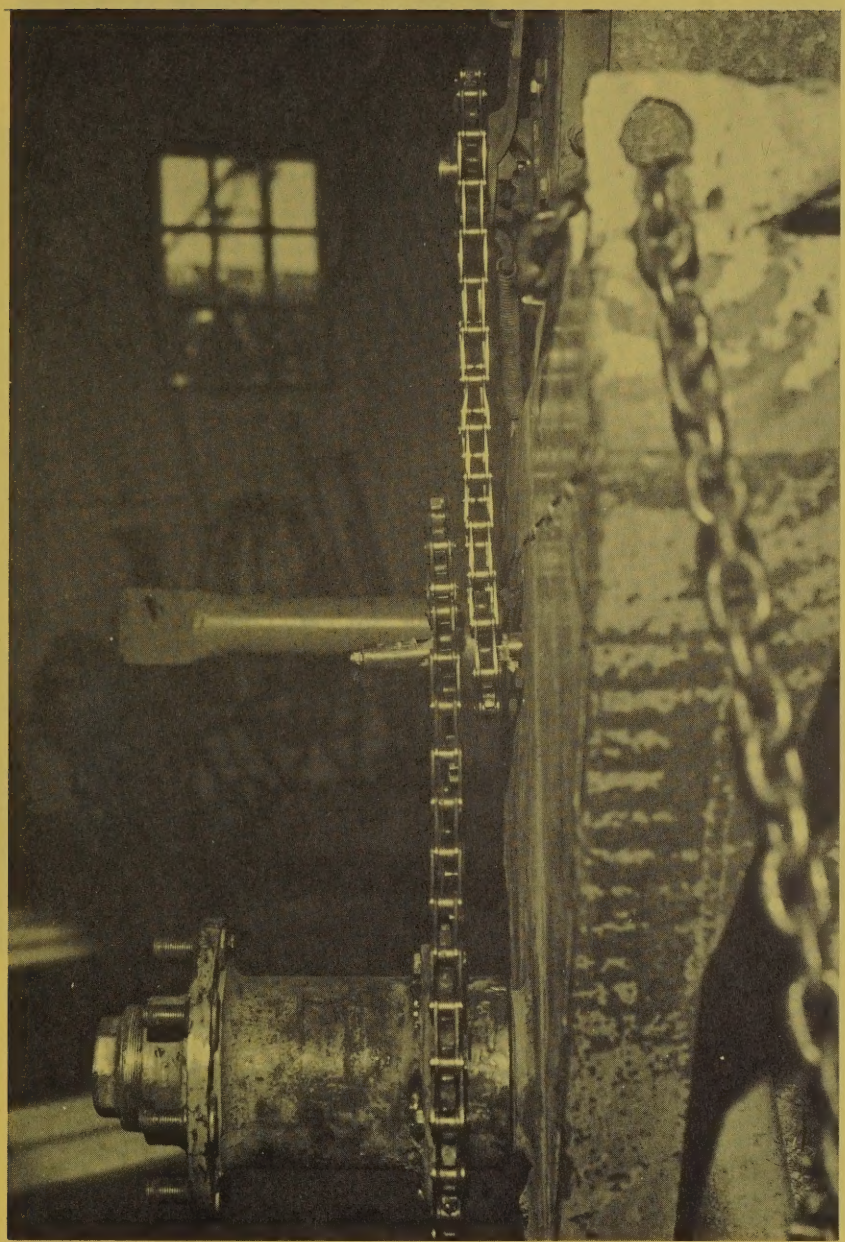
Add one set of sprockets on the chain drive on each side of the drill. Through this addition the seeding rate can be reduced by 50%. This enables proper seeding. The required parts cost $56.80 per drill. See the parts list for item and cost. The attached photographs show the changes necessary.

PARTS LIST

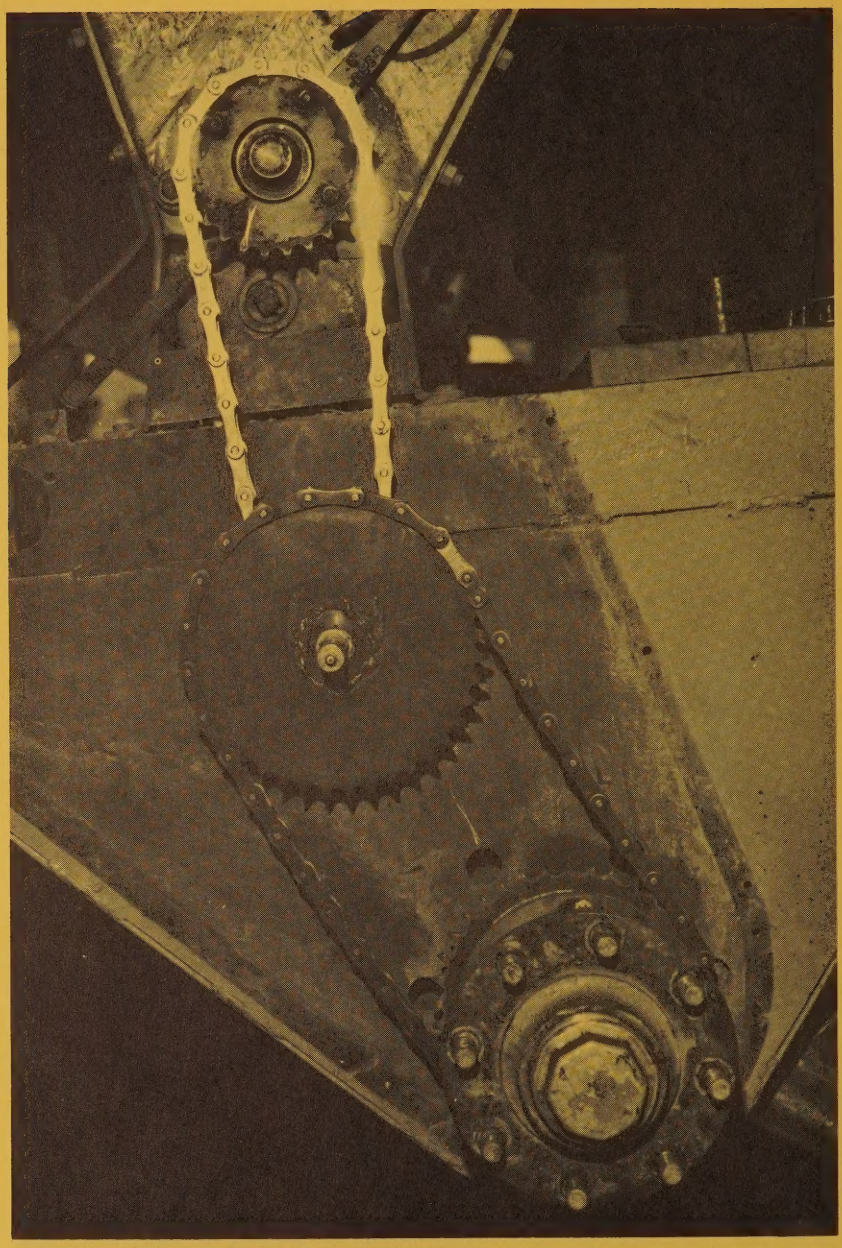
ITEM	UNITS	COST
Sprocket (40 tooth)	each	5.70
Sprocket (17 tooth)	each	4.70
Hub	each	7.00
Torrington bushing (2)	pair	2.20
Axle	each	3.00
Chain (30 links)	each	1.80
Axle carrier (shop made) (2)	pair	4.00
		$28.40

Additional copies of Technical Notes are available from Director, Portland Service Center, Box 3861, Portland, Ore., 97208

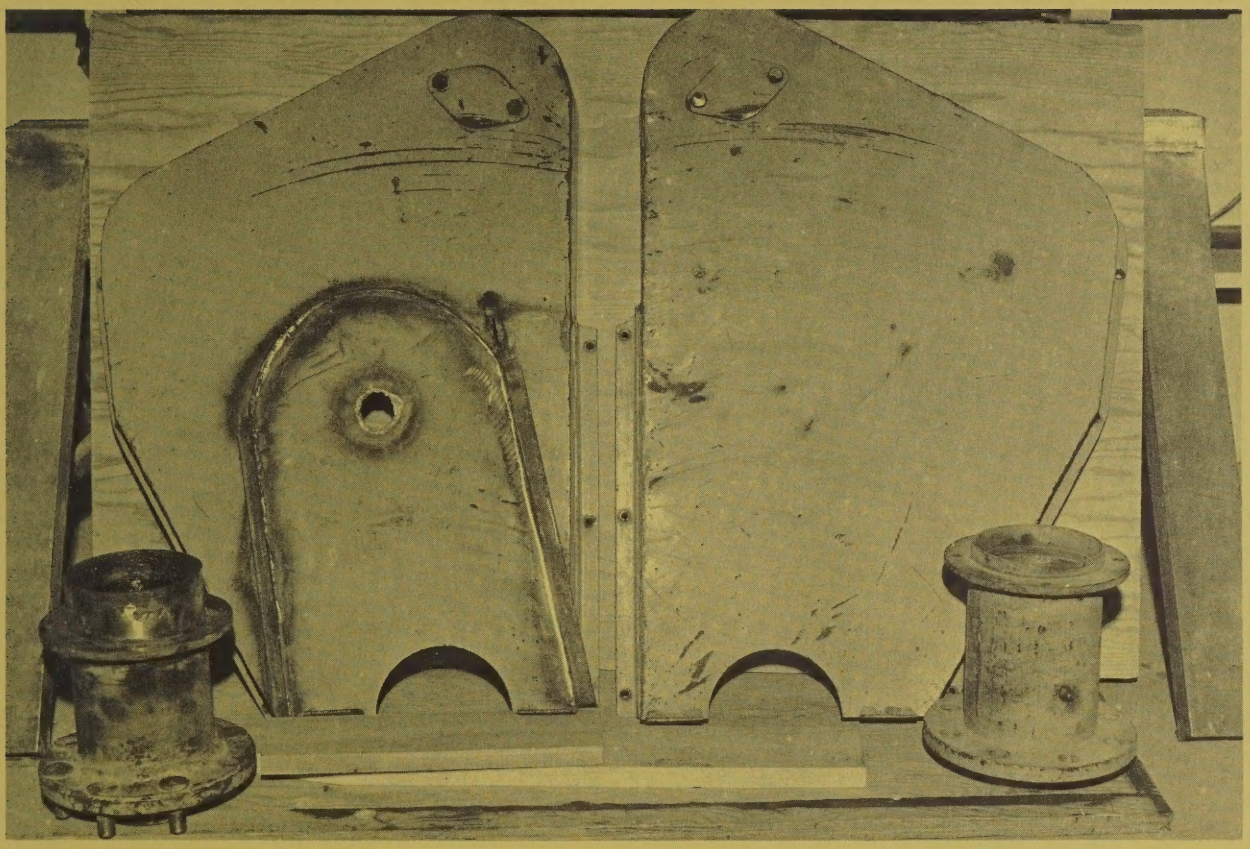
GPO 859-436



Rear view of completed modification without shield attached.



End view of completed modification without shield attached.



Hub and shield modification. The left shield and hub shown have been modified.

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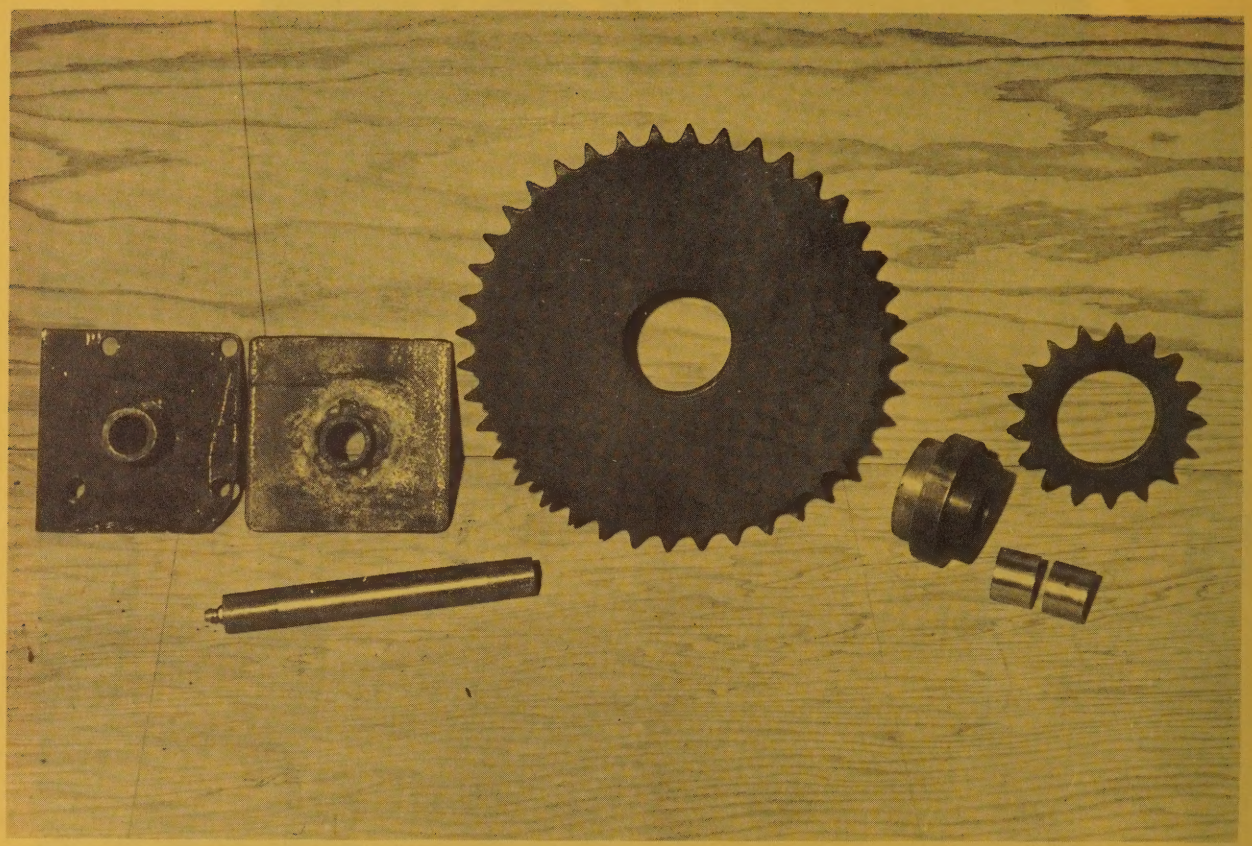

Parts required for speed reduction on each side.